walls defining a fluid flow path;

electrodes disposed along sides of the fluid flow path, the electrodes being in electrical communication with a source of electrical energy, whereby biological particles moving along the fluid flow path are subjected to an electrical field; and

the apparatus being characterized by at least one of the walls defining the fluid flow path being elastically deformable and at least another one of the walls defining the fluid flow path being substantially rigid;

wherein the electrical energy is a variable flux.

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20. (Amended) An electroporation chamber for poration of biological particles, the electroporation chamber being removably mounted to a support member, the electroporation chamber comprising:

walls defining a fluid flow path;

electrodes disposed along sides of the fluid flow path, the electrodes being in electrical communication with a source of electrical energy, whereby biological particles moving along the fluid flow path are subjected to an electrical field and

a mechanism for breaking the electrodes prior to the apparatus being removed from the support member whereby the apparatus cannot be re-used;

wherein the mechanism includes means that are connected to the electrodes employed in the electroporation chamber when the chamber is mounted to a support member for destroying the electrodes prior to the chamber being removed from the support member;

wherein the electrical energy is a variable flux.

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22. (Amended) An electroporation chamber for poration of biological particles, comprising:

walls defining a fluid flow path;

electrodes disposed along sides of the fluid flow path, the electrodes being in electrical communication with a source of electrical energy, whereby biological particles moving along the fluid flow path are subjected to an electrical field;

a pump for moving the biological particles along the fluid flow path; and

a controller responsive to the rate at which the pump moves the biological particles along the fluid flow path and to the interval between pulses of electrical energy;

B3 cont'd

wherein the electrical energy is a variable flux.

25. (Amended) An electroporation chamber for poration of biological particles, comprising:

walls defining a fluid flow path;

B4 electrodes disposed along sides of the fluid flow path, the electrodes being in electrical communication with a source of electrical energy, whereby biological particles moving along the fluid flow path are subjected to an electrical field;

wherein the electrical energy is a variable flux.